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Radio, No 12, 1949.

INCREASING THE STABILITY OF TELEVISION RECEPTION FOR STRONG SIGNALS IN THE USSR

S. Yel'yashkevich

When the transmitter of the Moscow Television Center was rebuilt, the intensity of the emitted field increased considerably. Within the limits of Moscow the field intensity is now much more than the 400-600 mkv required for normal operation of our T-1 "Moskvich," "Leningrad," and "KVN-49" receiv-

The excessive magnitude of the signal at the receiver input makes it impossible to establish the correct contrast. The image obtained is very dark, and there are no other brightness gradations. Synchronization stability is destroyed, the image jumps, and the return trace lines are not removed.

To obviate these phenomena, radio amateurs often replace the outdoor antennas by indoor antennas, receive on one feeder, or turn the dipole in the wrong direction. None of these methods can be justified. It is usually difficult to get rid of reflected signals when using an indoor antenna. The effect of interference is pronounced. Receiving on one feeder has an adverse effect on the clarity of the image.

To improve the stability of reception it is necessary to have an external, correctly oriented antenna, but a voltage divider must be inserted between the receiver terminals and the feeders (three 120-ohm resistors in series in each feeder with the middle resistors shunted by 50-ohm resistors on either side. Wire resistors which have large inductance at high frequencies should not be used.

The necessary degree of signal attenuation can be selected by connecting the feeder from the television antenna to one of the three possible junction pairs of the divider.

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